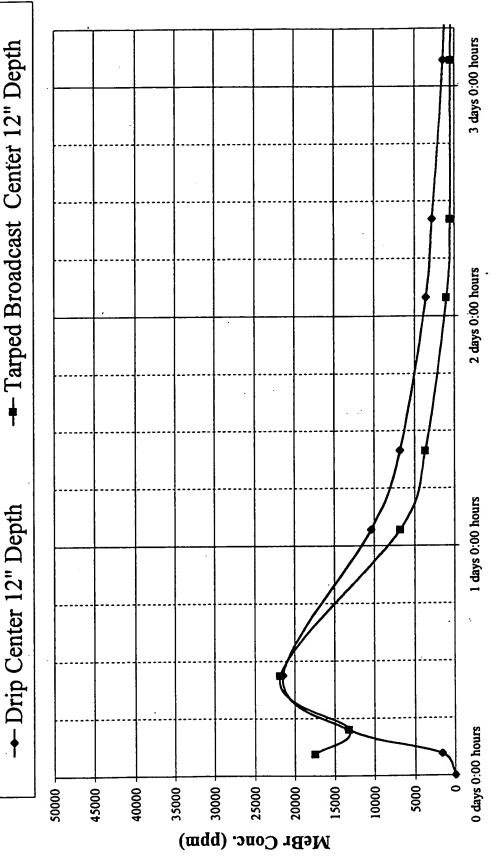
1)

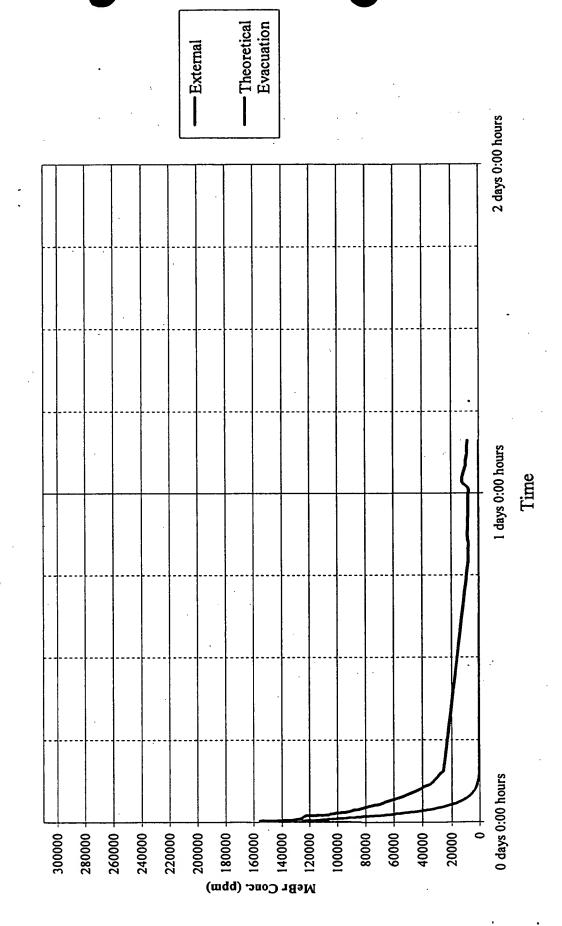




Time

MeBr Headspace Conc. vs. Time

Run #1 MeBr + ATLOX Surfactant + Water



2 days 0:00 hours

1 days 0:00 hours **Time** 

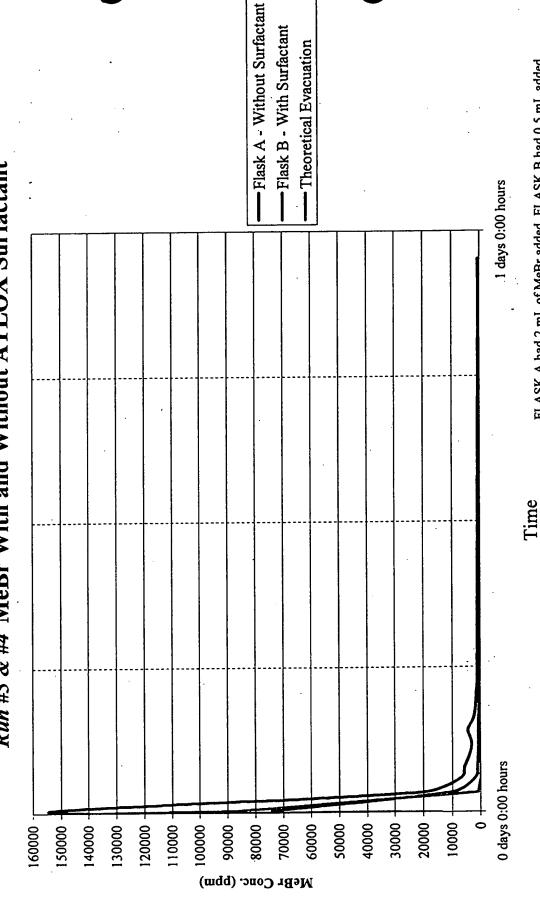
0 days 0:00 hours

20000

40000

F14.2c

Run #3 & #4 MeBr With and Without ATLOX Surfactant MeBr Headspace Conc. vs. Time



FLASK A had 2 mL of MeBr added, FLASK B had 0.5 mL added.

Treatment of different type of tubing with Chlasspirin Garmalation

Tubing Type	Immediate Rx	Wall Thickness after 15 Hours	Elasticity/ Strength after 15 Hours	General Appearance Integrity After 15 Hours
Black Seamless Latex	none	no Change	maintained	no effect
FEP Teflon	none	no. Change	maintained	no effect
Nalgene 860 Tissue Culture Grade	none	no: change	maintained	sticky
Manosilt	none	noichange	maintained	no effect
Tygon R3603	none	reduced thick-	reduced slightly	appeared melted
Nalgene 180 Premium PVC	none	reduced thickm	reduced slightly	slightly opaque, appeared melted

F14.4.

## Nematode Efficacy - Chloropicrin Drip Application of Various EC Percentages

Summary of Results

			Nem	atode Sp	ecies p			
Cylinder #	Root Knot (Meloidogyne)	Dagger (Xiphinema)	Citrus	Pin	Root Knot	Dagger (Xiphinem a)	Citrus	Pin
		Counts -				— Adjusted	Counts	- §
								' 
1	5	3	168		15	9	504	
2	22	4	216	28	66	12	648	8
3	1	2	456	<u> </u>	3	6	1368	
4	49		338	9	147	0	1014	2
5	0		7		0	0	21	
6	23		40	4	69	0	120	1
7	112		80	14	336	0	240	4
8	29		79		87	0	237	
9	0.		114		0	0	342	
10	16		72		48	0	216	
11	22		160		66	0	480	
12	29		87		87	0	261	
13	115		136		345	0	408	
14	16		30		48	0	90	
15	22		31		66	0	93	
16	79		82		237	0	246	
17	15		17		45	0	51	
18	30		81		90	0	243	
19	69		109		207	0	327	
20	26		68		78	0	204	

<sup>§ 33%</sup> extraction efficiency, measured values multiplied by 3

no counts were obtained for Ring nematode statistical analysis.

## F19.59

## then the time that the this to the time the time the time the time the time the time.

Chloropicrin EC - Lab Tests for Weed Seed Mortality PICAVEED

Weed Seed: hymnynyllins rythynllywus Treatment Date = 1028/1999	Treatment Date	ပ္	- 10/28/19		Number of Seeds/Dish =	- ds/Dish	001										
Seed	Seed	Š	Gem	Seed Germination Counts	unts							(% Mortality)	llity)				
Date of Count = 11/5/1999	Date of Count = 11	=======================================	/8/199	\$	Date	Date of Count = 11/9/1999	6661/6/11				_		:				
Elapsed Time from Treatment = 8 Days	c from Treatment = 8 Da	nt - 8 Da	Š		Elapsed Time from Treatment - 12 Days	-catment	12 Days										
				<del>-</del>							- Ist	st Count			-	2nd Count	2nd Count % Mortality
1st Count	1st Count				2nd Count	ount			1st Count	Ħ	<b>a</b>	at 8 Days	2n	2nd Count		at 12 Days	at 12 Days Above Control
Rep   Rep 2   Rep 3   Rep 4				Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2 Rep 3	_	Rep 4	Mean R	Rep I Rep	Rep 2   Rep 3	Rep 4	Mean	
MEIN MEED Control 0 ppin, 0% Einulsifier 26 29 15 20	15	50		75	99	\$5	75	74%	71%	8 8 8	. %08	78% 2	25% 34%	45%	25%	32%	%0
13 9 10 14	01			15	91	21	32	87%	%16	8 %06	%98	8 %68	85% 84%	%61	%89	%62	47%
6 2 12 4	2 12 4	4		10	4	61	و	94%	%86	6 %88	%96	94%	%96 %06	%18	94%	%06	28%
0 3 1 4	3 1 4	4		0	3	_	77	%001	%16	6 %66	%96	7 %86	%001	%66	36%	%86	969%
0 2 0 2	2 0 2	2		3	9	3	7	2%	%86	6 %001	%86	392	97% 94%	946	930	%56	63%
0 1 1 7	0 -	0		6	2	-	_	9,96	%66	006,	.006	%66	%86 %16	° o(c)	1000	91%	6.5%
Dien pan, Sie Emulstier () () () ()	0 0 0	0		O	0	0	0	100%	100%	100%	100%	100%	lone, lone,	o I i i i o	IIM Po.	100%	%89
			E														
OLD SBBD   Control 0 ppm, 0% Emulsifier					7.7% E	A. 1.		41.48	¥ 17		1 15%		-	-			The Control of the
Associate to the second of the	100		• 6	14 C 15 C	明成果でする	. A. W. W. W.	Section!	2. 阿克克	2000年	1300		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 2				Salk State and State of State
OLD SEBD   0 ppm, 50% Emulsifier	STANDARD WINDOWS SERVICE	STATE THAT SAN	3	Section .	V. 1000	ない。	ではなる	るのでは	立 美味の	Sec. 3.1.	第 為	1000	さん ちゃん	を という	14 C 14 C	大学の大学のできる 一般の人がある 一般の変形を のは、などの	A CONTRACTOR
OLD SBBD .   500 ppm, 5% Emulsification of the court   100 ppm, 5% Emulsification   100 ppm, 5% Emulsif	LALLY CONTACT DESCRIPTION	Section of	**	N SEPTEMBER	N. S. CONTACT			**************************************	<b>医多数</b>	<b>3303</b>		1000	100 B	有	2000	THE RESIDENCE OF THE PARTY OF T	
: OLD SEBD ( S00 ppm, S0% Emulsifier 社会社   安全社会   中央社会   法社会社会	Manager Annahis Control	<b>新班班</b>	Ž.		200 mg		2		変える			10000000000000000000000000000000000000			を変える	100 mm	Mark the second second
Some location whether the part of the			10									(A)		<b>发布</b>	STATE OF STA	**************************************	
:: 01D SBBD :: [1000 ppm, 50% Emulsind E/24] [ESA SA   [44: 40] [52: 48] [25: 48]																	
			١					The same of the sa									

NEW SEED Anova: Single Factor

HIGHLY SIGNIFICANT DIFFERENCE @ 99%

SUMMARY

Groups	Count	Sum	Average	Variance
low 1	4	1.29	0.3225	0.009025
Row 2	4	3.16	0.79	0.0060667
20w3	4	3.61	0.9025	
Row 4	4	3.92	0.98	0.0003333
20w5	4	3.81	0.9525	
Row6	4	3.87	0.9675	0.0014917
Row 7	4	7	-	٥

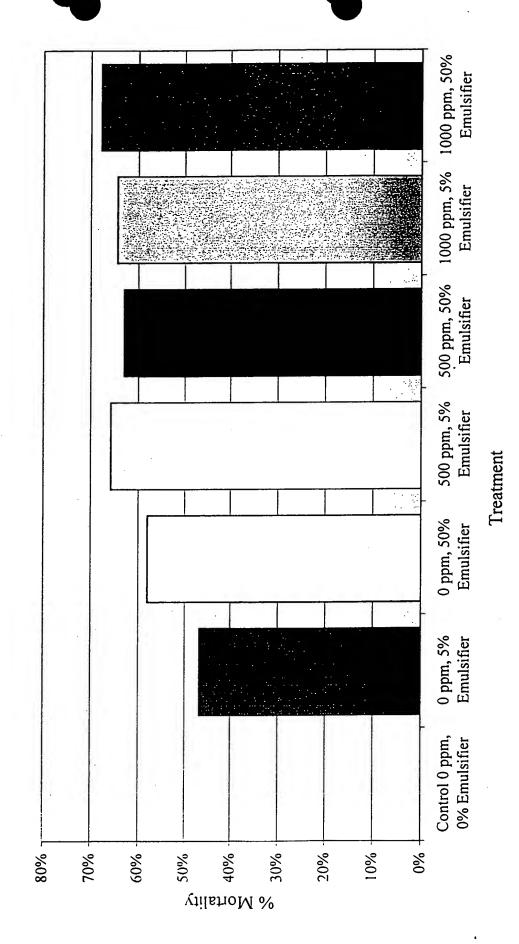
ANOVA						
Source of Variation	SS	2	S	ı	P-value	드
Between Groups	1.3928	ø	0.2321	74.841654	4.55E-13	5.880793
Within Groups	0.0853	23	0.00311			

1.4578

Total

22

% Mortality of New Weed Seeds Over Control Pigweed



7 13 3 Chloropicrin EC - Lab Tests for Weed Seed Mortality WHITE SWEET

CLOVER
Weed Seed: Methoris alba

	Γ			ality.	٠.	- -	_				)=	Γ				Γ	Γ	Γ	Γ	Γ	Ī	Γ	
				% Mortality	Above	Control		8	7%	%‡	%\$	%5	7%	4%		-3%	%0	3%	13%	%′	1%	% <b>8</b>	
					2nd Count	at 12 Days	Mean	%16	93%	%56	%96	%96	%86	%56		77%	%08	83%	93%	%98	%16	88%	
							Rep 4	94%	%16	95%	986.	95%	%001	%56		73%	%19	73%	%98	%16	%88	74%	
						2nd Count	Rep 3	82%	%16	93%	%1%	%()()	%16	<b>%</b> 66		%68	74%	26%	95%	94%	2001	%96	
						2nd (	Rep 2 Rep 3	%68	93%	36%	%16	986	%96	87%	ı	<b>%\$</b> L	%76	%88	%86	85%	%16	82%	
	(% Mortality)						Rep 1	%96	% %	94%	98%	93%	%66	%001		<b>%0</b> L	%26	94%	93%	75%	77%	2001	
	W %)				1st Count	at 8 Days	Mean	%16	93%	%56	%46	%86	%66	%66		%06	83%	%68	%56	94%	%16	92%	
							Rep 4	94%	%16	%56	%66	%86	100%	%/6		%16	%19	85%	%16	%56	%88	84%	
						Ist Count	Rep 3	85%	%/6	%56	%96	%66	%16	100%		%96	%91	87%	%16	%16	100%	%16	
						1st C	Rep 2	%68	63%	%96	%/6	%86	%86	%86		80%	93%	%06	%86	93%	92%	%88	
							Rep 1	%96	%06	%\$6	%\$6	%\$6	%66	100%		<b>82%</b>	%\$6	%%	63%	%68	%LL	%001	
8		6661/6/11	12 Days				Rep 4	9	6	5	2	\$	0	5		27	39	27	14	6	12	26	
ds/Dish =		Date of Count = 11/9/1999	Elapsed Time from Treatment =			ount	Rep 3	15	3	7	9	-	3	-		Ξ	56	24	5	9	0	4	
Number of Seeds/Dish =	nts	Date o	e from Tre			ပ.	Rep 2	=	7	4	3	CI	7	13		25	<b>«</b>	12	2	15	3	18	
בייע	on Counts		lapsed Tin			•	Rep 1	4	2	9	5	7	_	0		30	<b>∞</b>	9	7	25	23	0	
/28/1999	Seed Germination	0661/5/		•			Rep 4	9	6	2	_	~1	0	3		6	33	<u>«</u>	6	~	2	16	
Jare 10	Seed (	Date of Count = 11/5/1999	ment .			-	Rep 3		_	7	4	_	_	0		4	74	13	-	-	0	3	
reatment   Date =   10/28/1999		Date of C	rom Treat			C 1-	Kep 2 R	_	_	4	_	_	_	2		_	_	9	5	_	_	- 2	
			Elapsed Time from Treatment - 8 Days			-	Kep I Ke		_				<u> </u>	$\frac{1}{2}$						_	3		
	ý.		Flap				╢	4	=	S	°	?		0	ı	<u>۲</u>	~	4	-	-	23	°	
Weed Seed: 4 ichiotis aird					. 8	I realment	I reatment Solution	NEW NEED Control 0 ppm, 0% Emulsifier	NEW NEED 0 ppm, 5% Emulsifier	NEW SEED Oppu. 50% Emulsifier	NEIL NEED 500 ppm, 5° - Enulsifier	NEW NEED 500 ppm, 50% Emulsifier	NEW NEED 1000 ppm, 5% Emulsifier	NEW SEED 1000 ppm, 50% Emulsifier		OLD SEED Control 0 ppm, U% Emulsifier	OLD NEED   Oppur 5% Emulsifier	OLD SEED   0 ppm, 50% Emulsifier	OLD SEED   500 ppm, 5% Emulsifier	OLD SEED   500 ppm, 50% Emulsifier	OLD SEED 1000 ppm, 5% Emulsifier	OLD SEED   1000 ppn, 50% Enulsifier	
w ccu secu.						:	offy poor	NEW SEED	NEB SEED	NEW SPED	NEIL NEED	NEB NEED	NEW SELD	NEW SEED		OLD SEED	OLD SEED	OLD SEED	OLD SEED	OLD SEED	OLD SEED	OLD SEED	

No Significance			
NEW SEED	Anova: Single Factor	SUMMARY	

Row 1 Row 3 Row 4 Row 6 Row 6

ANOVA Source of Variation	ě	17	9/1		1	1
Source or variation	3	3	2		F-VBIUB	5
erween Groups	0.013088	•	0.002181	1.7843193	0.14899	2.572712
fithin Groups	0.025525	2	0.001215			
otal	0.038811	27				

Anova: Single Factor Groups Crown

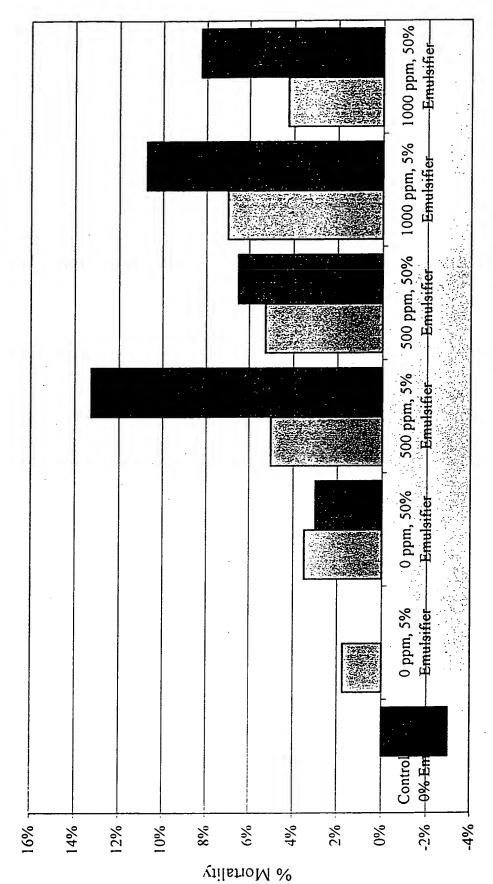
No Significance

OLD SEED

ANONA						
ource of Variation	SS	Jρ	SW	¥	P-value	FOIL
Between Groups	0.08197	6	0.01388	1.27966102	0.30875	2.57271
Within Groups	0.2242	77	0.01068			

Total 0.30617

% Mortality of New Weed Seeds Over Control White Sweet Clover



Treatment

## Chloropicrin EC - Lab Tests for Weed Seed Mortality WILD MUSTARD

-				% Mortality	Above	Control	-	% 6	-25%	.240	-30	2080	23.6%	786	27.67		%0	%1-	%0	%0	-2%	%0	%0
					2nd Count	at 12 Days	Mean	47%	22%	23%	17%	%61	23%	75%	22.		100%	%66	%001	100%	%86	100%	%001
							Rep 4	46%	21%	18%	12%	%51	24%	7005	1111		%66	%66	%66	100%	%001	%001	100%
						Count	-	%15	25%	30%	%	30%	30%	200	2.22		%001	%00 1	100%	%00I	%16	3001	1_1
						2nd Count	Rep 2	46%	22%	23%	28%	24%	20%	87%			%66	%86	%00I	2001	%86	%001	%001
	(% Mortality)	_					Rep 1	40%	20%	%1	%81	17%	%	749			100%	%86	%66	%86	%16	%00I	100%
	W%)	•	_		1st Count	at 8 Days	Mean	64%	%69	%02	%02	75%	75%	26%			100%	%66	%001	%001	%86	100%	100%
		_					Rep 4	%19	72%	%89	84%	76%	78%	8			%66	%66	%66	%001	100%	100%	100%
						1st Count	Rep 2 Rep 3	%09	%89	71%	%59	%06	82%	%/6			%001	%00I	100%	100%	%16	100%	100%
						lst C	-	62%	71%	%69	84%	74%	%69	%68			<b>%66</b>	%86	100%	100%	%86	100%	100%
	L	_					Rep 1	%59	%99	72%	%99	%09	70%	%69			100%	%86	%66	%86	%16	100%	100%
100		Date of Count = 11/9/1999	12 Days				Rep 4	54	79	82	88	8	92	4			-	_	-	0	0	0	0
eds/Dish =		of Count =	reatment =			2nd Count	Rep 3	49	75	70	16	8	0,	12			0	0	0	0	3	0	0
Number of Seeds/Dish =	ınts		Elapsed Time from Treatment = 12 Days			2nd (	Rep 2	51	78	11	72	76	08	13			1	2	0	0	2	0	0
	tion Cor		Elapsed T				Rep 1	9	80	81	<b>č</b> 8	83	18	36			0	2		5	3	0	0
Treatment Date = 10/28/1999	Seed Germination Counts	Date of Count = 11/5/1999	8 Days				Rep 4	33	78	32	36	74	22	14	Date of Count = 11/8/1999	11 Days	_	-	-	0	0	٥	0
nt Date =	See	f Count	estment =			1st Count	Rep 3	6	32	ξį	35	10	<u>«</u>	3	of Count =	eatment =	0	0	٥	0	3	0	0
Treatme		Date c	Elapsed Time from Treatment			) st		æ.	50	~	91	56	31	=	Date	Elapsed Time from Treatment	-	7	0	0	7	0	0
			Elapsed Ti			•	Rep 1	ž	2	82	×	40	30	31		Elapsed Ti	0	2	-	-1	~	0	
Weed Seed: Tittassica kaher						l nalment	Treatment Solution		0 ppm, 5% Emulsifier	NEW NEED Oppu, 50% Emulsifier	NEW NEED 500 ppm, 5% Emulsifier	NEW NEED 500 ppm, 50% Enulsifier	NEW SEED 1000 ppm, 5% Emulsifier	1000 ppm, 50% Emulsifier			OLD SHED Control 0 ppm, 0% Emulsifier	OLD SEED   0 ppm, 5% Emulsifier	OLD SEED   0 ppm, 50% Emulsifier	OLD NEED 500 ppm, 5% Emulsifier	OLD SEED 500 ppn, 50% Emulsifier	OLD SEED 1000 ppm, 5% Emulsifier	OLD SEED 1000 ppm, 50% Emulsifier
Weed See							Seed Age	A'EB' SEED	NEW SEED	NEIL NEED	NEB SEED	NEW SEED	NEBT SEED	NEIL SEED	. !		OLD SEED	OLD SEED	OLD SEED	OLDSEED	OLD SEED	OLD SEED	OLD SEED

JEW CEEN	TEAT SEED	nova: Sindle Factor	

SIGNIFICANT DIFFERENCE @ 98%

SIGNIFICANT DIFFERENCE @ 95%

OLD SEED
Anova: Single Factor

SUMMARY

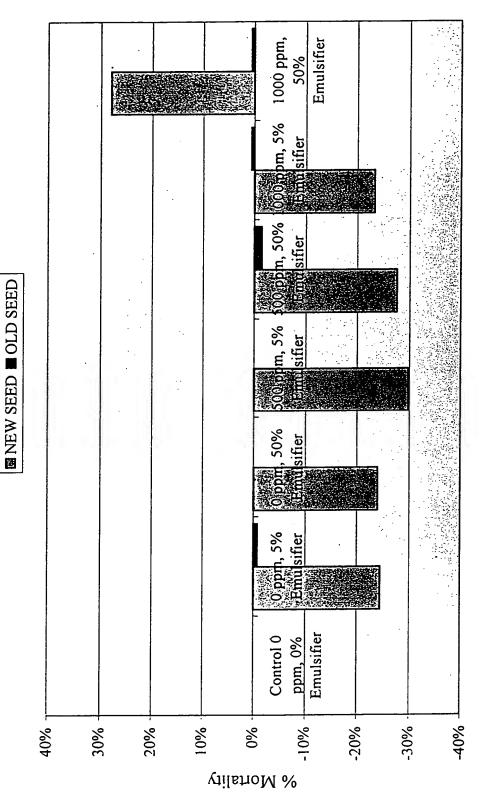
Groups	Count	Sum	Average	Variance
Row 1	4	1.88	0.465	0.0023
Row 2	4	0.88	0.22	0.00048667
Row 3	4	0.9	0.225	0.00296667
Row 4	4	0.67	0.1875	0.007025
Row 5	4	0.78	0.19	0
Row6	4	0.93	0.2325	0
Row 7	4	2.98	0.745	0.02296687

Source of Variation	SS	1	SW SW	1	P-vahia	Froit
letween Groups Vithin Groups	1.073936	9 F2	6 0.178969 31 21 0.005679	31,5201258	1.87E-09	3.811749

ANONA						
irce of Variation	SS ·	jρ	SW	u	P-value	FCrit
Between Groups	0.00124	۰	0.00021	3,14545455	0.02324	2.5727
Within Groups	0.00137	5	8.5E-05			

7

% Mortality of New Weed Seeds Over Control Wild Mustard



Treatment

TC343.3 Chloropicrin EC - Lab Tests for Weed Seed Mortality YELLOW

NUTGRASS

Weed Seed: ( 1712 1713 Treatment Date = 10.28/1999 Number of Seeds/Dish = 100

	_	_	_			=					Ť	7	1	7				T	$\overline{}$	7	┰	T	┰
			%	Mortality	Above	Control,		%0	%0	%0	%1.	%1-	.1%	%0			%I)	80	%0	%0	%0	%0	%0
					2nd Count	at 12 Days	Mean	%001	%001	%001	%66	100%	%66	100%			%001	%001	%001	7001	%001	100%	100%
	_						Rep 4	<b>%001</b>	%00 1	%00I	92%	98%	% <u>8</u>	300			7001	800	,00i	%001	%001 100%	%00±	%0°
						onut	Rep 3	%001	%00 <u>1</u>	%001	%001	%00I	.000	% 80 -			7001	300	%00	%00	%00 1	% <u>%</u>	%001
						2nd Count	Rep 2   Rep 3	%001	%001	100%	%001	%00I	98%	100%			%001	300	100%	3001	%001	%001	%00I
(% Mortality)	•						Rep 1	%001	100%	%00I	100%	%001	%66	<b>%</b> 001			%001	100%	%001	100%	%0E	100%	<b>%001</b>
%)					1st Count	at 8 Days	Mean	100%	%001	100%	100%	100%	%001	100%			100%	100%	%001	100%	%001	100%	100%
							Rep 4	%001	100%	<b>%</b> 001	%001	<b>%001</b>	%00I	100%			100%	%001	%001	<b>%001</b>	%00T	%00I	100%
						1st Count	Rep 1 Rep 2 Rep 3	100%	100%	100%	<b>%001</b>	<b>%</b> 001	<b>%001</b>	%001			100%	<u>%6</u>	%001	<b>%001</b>	%00I	%001	<b>%001</b>
						Ist	Rep 2	100%	100%	100%	100%	100%	100%	100%			100%	%001	100%	%001	%001	<b>%</b> 001	%001
							Rep 1	<b>%001</b>	100%	100%	100%	100%	%001	100%			<b>%001</b>	100%	<b>%001</b>	%001	%00I	100%	<b>%001</b>
	11/9/1999	12 Days					Rep 4	0	0	0	۶	2	0	0			0	0	0	٥	0	0	0
	Date of Count = 11/9/1999	lapsed Time from Treatment =				2nd Count	Rep 3	0	0	0	0	0	0	0			0	0	0	0	0	0	0
ınts	Date	ime from T				2nd (	Rep 2	0	٥	0	0	0	- 5	0			0	0	0	0	0	0	0
ermination Counts		Elapsed T				•	Rep 1	٥	0	0	٥	٥	-	0			0	0	0	0	0	0	٥
Seed Germination Counts	Date of Count = 11/5/1999	8 Days			•		Rep 4	•		٥	٥	0	٥	0	Date of Count = 11/8/1999	11 Days	0	0	0	0	0	0	0
See	Count =	atment =				ount	Rep 3	9	0	0		0	-	0	f Count	atment -	0	0	0	0	0	٥	٥
	Date of	Elapsed Time from Treatment =				1st Count	Rep 2   Rep 3	0	٥	0	٥	0	0	0	Date	Elapsed Time from Treatment -	0	0	0	0	٥	0	•
		Elapsed Ti				•	Rep	0		0	٥	0	0	1		Elapsed Ti	Э	0	0	0	•	0	0
						l reatment	Treatment Solution	Control 0 ppm, 0% Enutsifier	0 ppm, 5% Limitsifier	O ppm, 50% Enulsifier	W.H. W.E.D SOO ppn, 5% Emulsifier	W.W.W.W. 500 ppn, 50° e Enudsifier	AEBTAED 1000 ppn, 5% Emulsifier	NEW SEED 1000 ppm, 50% Emulsifier			OLD SRED Control U ppm, 0% Emulsifier	OLD NEED 0 ppm, 5% Emulsifier	OLD SEED Oppu, 50% Emulsifier			1000 ppn, 5% Enulsifier	OLD NEED   1000 ppm, 50% Emulsifier
								NEW SEED	NEW SEED	NEW SEED	NEW MED	NEW SELD	NEW NEED	NEIL SEED			OLD SRED	OLD SEED	OLD SEED	OLD SEED	OLD SEED	OLD SEED	OLD SEED

NEW SEED Anova: Single Factor

No Significance

OLD SEED

No Significance

 SUMMARY
 Groups
 Count
 Sum
 Average
 Variance

 Row1
 4
 4
 1
 0

 Row2
 4
 4
 1
 0

 Row3
 4
 4
 1
 0

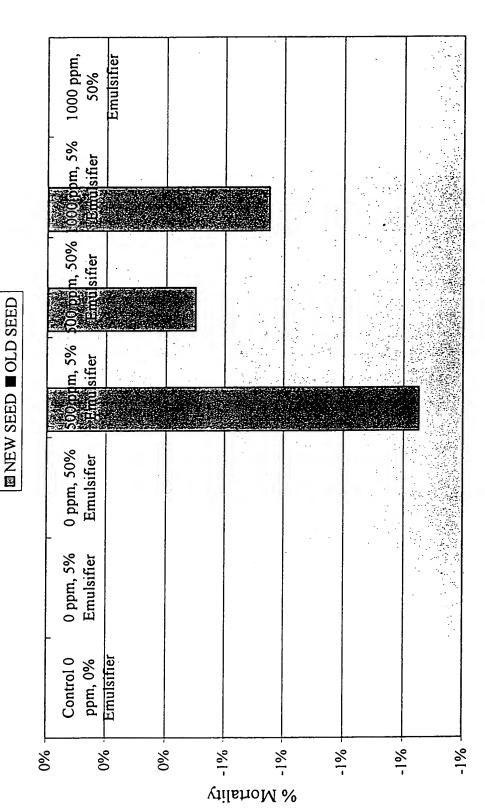
 Row4
 4
 3.95
 0.9802
 0.00025

 Row5
 4
 3.97
 0.9925
 9.1867E-05

 Row7
 4
 3.97
 0.9925
 9.1867E-05

ANONA						
Source of Veriation	SS	/ρ	MS	4	P.value	Fcril
Between Groups Within Groups	0.000583	9 Z	9.88E-05 0.000117	0.84693878	0.548452	2.572712
Total	0.003043	7.				

% Mortality of New Weed Seeds Over Control Yellow Nutgrass



Treatment

Auf Will and any one of the find = ļ4 Half then then then the

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TCD IR Chloropicrin EC - Lab Tests for Weed Seed Mortality YELLOW SWEET

CLOVER

Mortality Control Above **%91**-**2**% %9-% % at 12 Days 2nd Count 88% 86% %66 97% 100% %96 100% %00 %001 % 001 **%96** 100% % & % %86 %96 95% 93% %26 % 001 <u>%</u> 70% 80 ŝ 95% 8 83% 97% 2nd Count Rep 2 % 001 % 00 10 , 678, 22% %001 % %68 95% %86 88% 8 %46 100% (% Mortality) % % 001 %96 % 75% %16 %56 8 1st Count at 8 Days Mean 200 %06 %91 % 5 **%96** %66 97% %16 100% 100% %001 **%**96 % 001 92% %% %/6 93% %86 100% 200 97% <u>%0</u> %001 <u>%</u> 88% **%**001 %98 **%**88 %86 97% 1st Count 100% %26 100% 300 % 001 %56 83% %68 %86 **%**88 %66 76% %00I 97% %96 72% %56 %66 %26 93% % % 88% Date of Count - 11/9/1999 Elupsed Time from Treatment - 12 Days 8 Rep 3 Number of Seeds/Dish = 2nd Count Rep 2 Seed Germination Counts Rep | 4 2 Treatment Date = 10/28/1999 Date of Count = 11/5/1999 Date of Count = 11/8/1999 11 Days Elapsed Time from Treatment ... 8 Days Rep 4 Elapsed Time from Treatment Reo 3 1st Count Rep 2 25 Control 0 ppm, 0% Enudsifier Control 0 ppn, 0% Enulsifier 1000 ppm, 50% Emulsifier Weed Seed: Afciliatus indica 1000 ppm, 50% Linulsifier 500 ppm, 50% Finalsifier 1000 ppm, 5% Emulsifier 1000 ppm, 5% Emulsifier 500 pan, 50% Emulsifier 500 ppm, 5° o limplisitier 500 ppm, 5% Emulsifier O 14m. 50% Cinulation 0 ppm, 50% Emulsifier 0 pan, 5% Emulsifier Oppur, So linuisifier **Treatment** NEW SEED NEW NALED NEW SEED WEIL SEED OLD SEED NEW MEET NEW SEED OLD SEED OLD SEED OLD SELD NEW SEED OLD SEED OLD SEED OLD SEED

Anova: Single Factor OLD SEED

SIGNIFICANT DIFFERENCE @ 99%

Anova: Single Fector

SUMMARY

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**NEW SEED** 

SIGNIFICANT DIFFERENCE @ 99%

0.965 0.00083333 0.965 0.00083333 0.965 0.00063333 0.003425 0.9875 3.88 3.88 3.88 3.87 SUMMARY Groups Row 1 Row 2 Row 4 Row 6 Row 6 Row 6

13290 Variance 0.875 0.0041 0.88 0.0024687 0.905 0.0017363 0.87 0.0002 0.89 0.0022687

23.88 23.88 23.88 29.88 29.88

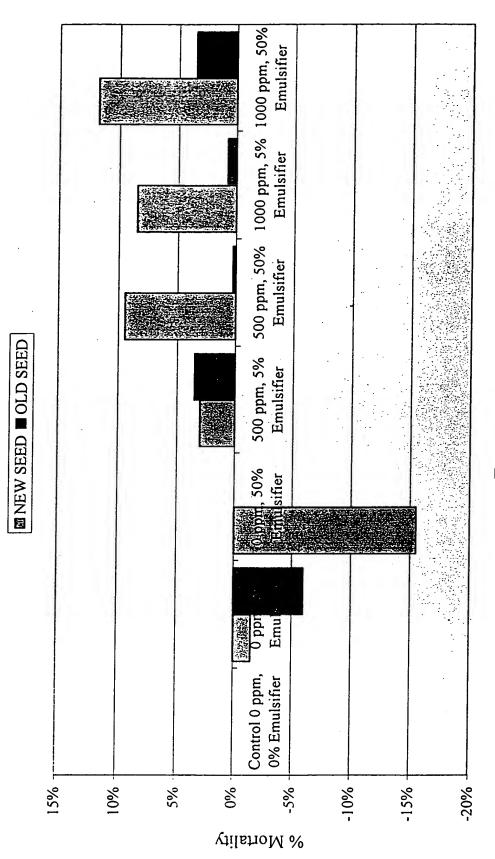
Row 2 Row 3 Row 4 Row 5 Row 6

3.16E-05 3.811749 9.8977078 0.0034442 0.00348 ۵ ۲ 0.20665 0.073075 0.279725 Source of Vanabo Batween Groups Within Groups

Z G B

MS F Pvalue 0.00404 5.281831484 0.00189 0.00076 Source of Verie SS
Between + 0.02422
Within Gr 0.01605 0.04027 Total

% Mortality of New Weed Seeds Over Control Yellow Sweet Clover



Treatment

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T.343.2 Chloropicrin EC - Lab Tests for Weed Seed Mortality
13/48/12/18/18/18/18
Weed Seed Tchinuchles crisealli

				Mortality	Above	Control		%0	-19	18	0%0	7706	7,91	200	07.70		700	7%	3%	377	%	20%	3%	33%								)			
					2nd Count	at 12 Days	Mean	%9	%\$	21%	%9	78%	27%	7007	00.00		700	%7	%	36%	3%	22%	%\$												
		_			•		Rep 4	%81	%	°°,	1,00	, <u>1</u>	0,0	18	00.00		řěč	3 8	8	3	2%	72%	%												
						ount	Rep 3	%9	%	85%	()e	750.	ŝ	è	D/C/		790	3 8	8	%	2%	8	%												
						2nd Count	Rep 2	%	%0	ŝ	°.	770.	è	90%			30%	8	8	8	%	%	%9												
	(% Mortality)						Rep 1	‰	%02	3%	();(	41%	600,0	è			705	8	%	\$0%	‰	%S1	%1		2										
	%)				1st Count	at 8 Days	Mean	%81	24%	25%	%57	62%	%64	77%			<b>%</b> 9	%0	3%	38%	%9	34%	12%	No Chanificano				Vanance	980	<b>-</b>	0 4/00/2	0.025 0.00083333	0.117225	āl	
					•		Rep 4	%65	%1	<b>%</b> 01	21%	%()	2%	%89			%0	%	%	%16	8%	80%	10%					AVB/BGB		<b>o</b> c	383	•	0.2175	0.0475	
						1st Count	Rep 3	12%	3%	85%	11%	850%	2%	%88			%0	8	%1	2%	11%	2%	18%				1	800	3	•	44.	0	0.87	0.19	
						Ist	Rep 2	%	5%	š	10%	9.46.9	%56	94%			%\$	%	%	1%	7%	%	12%	יניט	Anova: Single Factor	>	3	4	7	7	7	4	4	4	
							<u>چ</u> و ا	%	% Ø	%5	57%	() <sub>()</sub>	92%	28%			20%	%	3%	20%	1%	24%	%	OLD SEED	Anova: Si	SIMMARY		Row 1	Bow 2	Rows	Row 4	Row 5	Row 6	Row 7	
90		Date of Count - 11/9/1999	12 Days				Rep 4	2	2	ğ	88	90	95	34			100	8	100	17	95	88	93												
= ds/Dish =		of Count -	eatment =			ount	Rep 3	ষ্ট	2	~	8	25	95	7			100	8	100	95	25	8	95												
Number of Seeds/Dish =	nts	Date	Elapsed Time from Treatment -			2nd Count	Kep 2	8	8	8	70	۲;	93	00			66	100	100	93	8	8	8	CE @ 99%	)										
Z	ion Cou		Elapsed Ti			-	Ç.	8	8	72	8	3.	=				95	001	8	20	8	æ	8	DIFFEREN											
0/28/1999	Seed Germination Counts	6661/5/11	8 Days				╬	4	\$	8	۶	20	86	32	6661/8/11	11 Days	100	001	<u>8</u>	٥	2	2	8	SIGNIFICANT DIFFERENCE @ 99%			Variance	0.0072	0.0	0.1687	0.003225	0.4825 0.13075833	0.215 0.10036687	12016867	
Treatment Date = 10/28/1999	Seed	Date of Count = 11/5/1999	atment =			unt G	rep.	æ !	5	<u>~</u>	æ	<u>~</u>	સ	12	Date of Count =	atment -	100	<u>80</u>	8	25	£	8 1	82	ŋ			Average	8	8	0.235	0.0825	0.4825 0	0.215 0	0.875 0	
Treatmen		Date of	e from Tre			ũ-	$\parallel$	3 5	× !	8	8	٥	£	9	Date of	e from Tre	95	8	25	25	æ	3 2	×				Sum	2	0.2	9	0.25	1.83	98	2.7	
			Elapsed Time from Treatment =			-	+	_  -  3	-  -  :	s :	7	=	72	7		Elapsed Time from Treatment -	80	<u>s</u>	97	S	8 :	ę į	χ, -				Count	4	4	4	4	4	4	٩	
Weed Seed: Echinochloa crusgalli						realment	╬	Continue of Han, U.S. Emulsiner	o pani, 3. e chansiner	u jami, 50° e rimiismer	NAME AND STATEMENT OF THE STATE	May pan, Mr. J. malsmer	1000 ppm, See Emulsifier	1000 pnn, 50° e l'inulsifier	というない。		Control 0 ppm, 0% Emulsifier	0 ppm, 5% Emulsifier	0 ppn, 50% Enudsifier	500 ppm, 5% Emutsifier	500 pan, 50% Emulsifier	1000 ppm, 5% Emilisifier	two plan, 50% emulsiner	NEW SEED	Anova: Single Factor	SUMMARY	Croups		Row 2	Row 3	Row 4	Row 5	Kow 6	dow /	
Weed Seed:						Seed Ass	1	┰	Т	7	Т	Т	T	CHAS HAN			T	Ţ	Т	Т	T	Т	OLD SEED		•			, <del></del>	-	-	'	-•	•		

MS F Puelue Fort 6 0.07828 2.110372725 0.08515 2.57271 21 0.03708

Source of Variation SS Between Groups 0.48954 Within Groups 0.77873

> 3S 1.389036 1.62125

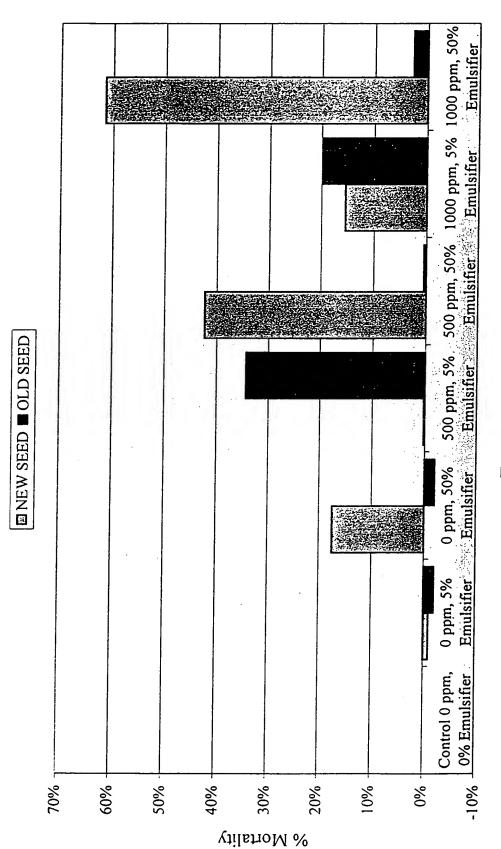
ANOVA
Source of Variation
Between Groups
Within Groups

3.010286

Total

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% Mortality of New Weed Seeds Over Control Barnyard Grass



Treatment

CO43.3 Chloropicrin EC - Lab Tests for Weed Seed Mortality IRINDWELLD

Weed Seed: Convolvatins, granishs

Weed Seed:	Weed Seed: Convolvidus arxensis		Treatmen	Treatment Date ≈ 10/28/1999	10/28/1999		Number of Seeds/Dish	ds/Dish =	100											
				See	Seed Germinat	ation Counts	ints						%)	(% Mortality)	ž					
			Date	Date of Count = 11/5/1999	11/2/1999		Date o	Date of Count = 11/9/1999	6661/6/11											-
		Elapsed T	Elapsed Time from Treatment	restment =	8 Days	Elapsed Ti	Elapsed Time from Treatment		12 Days											_
																			\$	
					-													_	Mortality	_
													1st Count	nut				2nd Count	Above	
	Treatment		1st C	1st Count			2nd Count	ount			1st Count	=	at 8 Days	ays	2n	2nd Count		at 12 Days	Control	
Seed Age	Treatment Solution	Rep 1	Rep 2 Rep 3	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1 R	Rep 2   Rep 3	2p 3   Rep 4	p4 Mean	n Rep 1	l Rep 2	2   Rep 3	3   Rep 4	Mean		
NEIVNEED	NEW NEED   Control 0 ppm, 0% Emulsifier	15	02	23	78	8	84	83	78	85%	7 %08	77% 72	72% 79%	%02	%91	%11%	, 22%	%61	%0	Π
NEILNED	Oppur 500 Emulsifier	91	22	23	4	29	53	27	82	84%	78% 7	98 %/	86% 81%	%17 %	%17	, 13%	82%	74%	%95	
NEBUNEED	O ppm, 50% Enulsifier	61	15	51	91	15	63	55	99	3 %18	8 % 8	85% 84	84% 84%	%61 9%	37%	6 45%	35%	45%	23%	
AFB SEED	500 ppm, 5% Umbilitien	<u>:</u>	91	14	7	54	63	\$\$	59	3 %88	84% 8	86% 93	%88 %66	%91 9	37%	45%	350,0	41%	22%	
OLIN MIN	500 ppm, 50% Emulsifier	5.	13	33	11	62	13	7.4	9\$	3 %54	87% 7	78% 83	83% 81%	380.0	87°6	6 26%	440,0	%61	30%	
VER SILLI	1000 ppm, 5" c tandsifier	~	15	\$	12	11	30	10	16	9,5%	85% 0	98 %56	%06   %88	°08 %	a 80%	0()6:9	8.1°a	85%	%99	
MERCARED	lunn ppm. Sofe Emulsifier	٠,	×	3	7	7	15	7	10	3 %56	6 %76	96   %/6	<b>%</b> 56   <b>%</b> 96	6 93%	8.5%	. 93%	. 197	%06	72%	
THE WAY WELL				128.246					Contract					Salitation of				Charles and Article Visits	表を変	
CID SEBD	OLD SHID   Control 0 ppm, 0% Emulsifier   Section 1	Service of	Sec. 12.	Partie Salar	Standard !	1. A. S. S. S.	Michigan San	1. 19 18 19 19	Seattle Seattle	A SANCE IN	A	1. Car	BORNER BORD MARKE SHAREST COURSE	State of the	At ASSESSED		Silbin terr till both.	s. protestation		
CHRS CLIO	O ppm, 5% Emulsifier and the later of the later and late	3.00	<b>多数是一个</b>	1. C. P. P.	制 都特別特別 对外的影响中华的	司一次有关的	TANK THE	1,500	计和 () 解系	144	H SHARE	<b>建筑 医</b>	CHARLES HANDED INCOMES COMMISSION	Bisk W. Bake	<b>建</b>	Sec Design	<b>经</b> 公司的	di Zepti i dala	Sept marige	
OLD SBBD	OLD SBBD   Oppm, 50% Emulsification of the Control of the State of the	A. S. J. B.	经 种线	Sept. Sept.	WHITTHE	A. (18)	A STATE OF THE STATE OF	STATE OF	7. 图 2	STATE OF THE PARTY	ALCT. 18	WHILE CO.	THE COLORS HATER COLORS IN BUILDING	Marie Table Me	.,,	W. 18.	Jackson President medica-	m postalistication	ministrates and	٠,
OLD SHED	OLD SEBED   500 ppm, 5% Emulsifier betrack   Sebes   September   September   1800 ppm, 5% Emulsifier   September	138313	Part 2017	345.54	を行る	100	L. Children	NAME OF		ALARCAC CIT	Carl Statement   Statement	W. V.	CARRIED SEASON OF THE	AGN TOWNS		WATER OF THE	Mark Straighte	the strategickame	S. Copy & Specific Section 1	. 33
GBBS CTO	OLD SBBD -   500 ppm; 50% Emulsind 30%	PAN WAR	李松利研究	<b>GROWING</b>	STATE OF THE PARTY.	- The Co.							Week describe	16.00 A.	Perturbation (Street St.	Š	Mary Charles	1 44 A TO 1 1 STAY 16 C.	1.00.00	1
COLD SEED IN	The second of the second secon				200				The second	Section 1										1
A STATE OF THE STA														111.00				1	Sand Same & S.	

NEW SEED Anova: Single Factor

SIGNIFICANT DIFFERENCE @ 99%

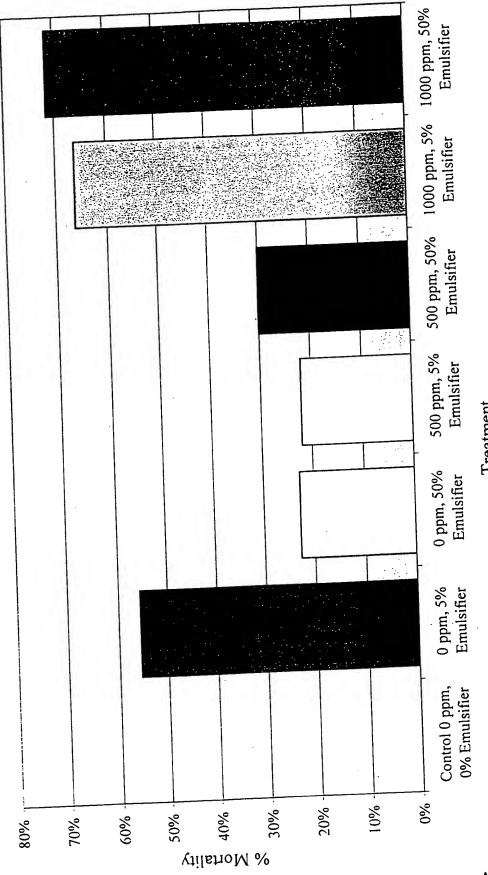
0.75 2.97 1.63 1.95 3.4 SUMMARY Row 1 Row 2 Row 4 Row 6 Row 6

NOVA						
Source of Variation	SS	ſρ	SM	F	P-value	Forit
letween Groups	1.689021	8	0.281504	23.248748	2.97E-08	3.811749
Vithin Groups	0.254275	21	0.012108			
leto	1.943296	27				

FIG 116.

The first first that the first that the man the first first that the first fir

% Mortality of New Weed Seeds Over Control Bindweed



Treatment